CLAIMS

We claim:

1 1. An optoelectronic component with an epitaxial semiconductor layer sequence 2 having an active zone that emits electromagnetic radiation, and at least one electrical 3 contact region having at least one radiation-transmissive electrical contact layer, which 4 contains ZnO and is electrically conductively connected to an outer semiconductor 5 layer, 6 wherein 7 the contact layer is provided with watertight material in such a way that it is 8 adequately protected against moisture. 1 2. The optoelectronic component according to claim 1, 2 wherein 3 watertight material is applied to free areas of the contact layer. 1 3. The optoelectronic component according to claim 2, 2 wherein 3 watertight material is applied to all the free areas of the contact layer.

1	4. The optoelectronic component according to claim 1,
2	wherein
3	the watertight material is a dielectric that is transparent to an electromagnetic radiation
4	emitted by the component.
1	5. The optoelectronic component according to claim 4,
2	wherein
3	the dielectric comprises one or more of the substances Si _x N _y , SiO, SiO ₂ , Al ₂ O ₃
4	and SiO _x N _y .
1	6. The optoelectronic component according to claim 1,
2	wherein
3	the refractive index of the watertight material is less than the refractive index of
4	the contact layer and it is adapted to the greatest possible extent in particular for a
5	minimization of reflections of the radiation emitted by the component at interfaces with
6	respect to the watertight material.
1	7. The optoelectronic component according to claim 1,
2	wherein
3	the contact layer has a thickness corresponding to about an integer multiple of
4	half the wavelength of a radiation emitted by the component, and the watertight materia
5	has a thickness corresponding to about a quarter of said wavelength.

- 1 8. The optoelectronic component according to claim 1,
- wherein
- the thickness of the watertight material is about 50 to 200 nm, including the limits.